



BANDING OF DISCARDED CAPACITORS FOR SHIPPING

FIGURE II

Short top of capacitor with #6 AWG wire
NOTE: Short single bushing capacitors to the case.

2 layers of corrugated cardboard to protect corners

Overlap sheet and seal to prevent entry of water

Sealing Tape

PLASTIC WRAPPING OF INDIVIDUAL LEAKING CAPACITOR

FIGURE I

Plastic Sheets (6 mil, 2 layers or #4 mil, 3 layers #4 mil available at Gen. Stores

- GENERAL:**
1. This standard practice covers the handling and disposal of unuseable distribution and station power capacitors which contain Askarel (Polychlorinated Biphenyl or PCB).
 2. Practically all of the power capacitors on Puget's system as of the end of 1976 are filled with PCB. All of the capacitors purchased after about August, 1976 are filled with non-PCB liquid.
 3. PCB is detrimental to certain marine life and must be kept out of the water system. Concentrations as low as a few parts per trillion are considered to represent contamination by clean water standards. PCB is made by Monsanto Chemical Co. under the trade name Aroclor. It is also referred to by electrical manufacturers as Elenex, Pyranol and Inerteen. Capacitors which have ruptured cases, broken bushings or are leaking in any manner must be handled according to this practice unless it is positively known that they do not contain PCB compounds.
- HANDLING:**
1. Upon removal of a power capacitor from Puget's system, it shall be immediately short-circuited with #6 AWG solid wire and shall be inspected for any leakage of fluid. The fluid will appear to be an oil substance. Capacitors that are cracked, ruptured or leaking shall be individually wrapped in plastic sheets as soon as possible after being damaged. The plastic sheet shall have a minimum thickness of 4-mils. See Figure 1. The wrapped unit shall be kept in an upright position.
 2. The capacitors shall be placed on a wooden pallet and stored in a designated, isolated location.
 3. Use disposable gloves in handling leaking capacitors. Any spilled fluid is to be picked up using "Zorball" absorbent material. Clothes, hands and utensils which have been wetted by the Askarel shall be wiped clean and dry with rags or paper towels. The rags, towels, gloves and absorbent material shall be placed in plastic bags and disposed of along with the capacitors.
- SHIPPING:** When the pallet is full it shall be banded as shown in Figure 2 and sent to General Stores, Renton for final disposal. Care shall be taken during banding and other handling to avoid cutting, tearing or puncturing the plastic wrapping on the wrapped capacitors or causing any leakage from those capacitors that are not wrapped.
- DISPOSAL:**
1. Upon receipt at General Stores, the pallet shall be stored in a designated, isolated area and Resource Recover Corporation shall be called to pick up the capacitors for removal to the final disposal site.
 2. The banded pallet and capacitors shall be loaded on the disposal company's truck and taken to the disposal site. Therefore, it is recommended that a pallet of minimum value be selected for this use.

PRELIMINARY

CAPACITORS, ASKAREL (PSE)-FILLED,
HANDLING & DISPOSAL OF

PUGET SOUND POWER & LIGHT COMPANY

1 OF 1 TENTATIVE
STANDARD PRACTICE
4511.2110

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